

Active Recombinant E. coli AmpC protein, His-tagged

Cat. No. ampC-967E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E. coli beta-lactamase protein, fused to His-tag at N-terminus, was expressed in E. coli.
Species	E.coli
Source	E.coli
ProteinLength	20-377aa
Description	AmpC, also known as Beta-lactamase, is the most widespread resistance mechanism to beta-lactam antibiotics, such as the penicillins and the cephalosporins. These antibiotics have a common element in their molecular structure: a four-atom ring known as a beta-lactam. The lactamase enzyme breaks that ring open, deactivating the molecule's antibacterial properties. Recombinant E. coli beta-lactamase protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Form	Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
Bio-activity	Specific activity is >700unit/mg, in which One unit will hydrolyze 1.0umole of Nitrocefin per minute at pH 7.0 at 37 centigrade.
Molecular Mass	41.8 kDa
AA Sequence	APQQINDIV HRTITPLIEQ QKIPGMAVAV IYQGKPYFT WGYADIAKKQ

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PVTQQTLFEL GSVSKTFTGV LGGDAIARGE IKLSDPTTKY WPELTAKQWN
 GITLLHLATY TAGGLPLQVP DEVKSSDLL RFYQNWQPAW APGTQRLYAN
 SSIGLFGALA VKPSGLSFEQ AMQTRVFQPL KLNHTWINVP PAEEKNYAWG
 YREGKAVHVS PGALDAEAYG VKSTIEDMAR WVQSNLKPLD INEKTQQGI
 QLAQSRWQT GDMYQGLGWE MLDWPVNPDS IINGSDNKIA LAARPVKAIT
 PPTPAVRASW VHKTGATGGF GSYVAFIPEK ELGIVMLANK NYPNPARVDA
 AWQILNALQ

Purity > 95% by SDS-PAGE

Applications SDS-PAGE, Enzyme Activity

Storage Can be stored at 2 centigrade to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml

GENE INFORMATION

Gene Name [ampC beta-lactamase \[Escherichia coli str. K-12 substr. MG1655 \]](#)

Official Symbol [ampC](#)

Synonyms ampC; ampA; Cephalosporinase

Gene ID [948669](#)

Protein Refseq [NP_418574](#)

UniProt ID [P00811](#)

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